RP_{\perp}

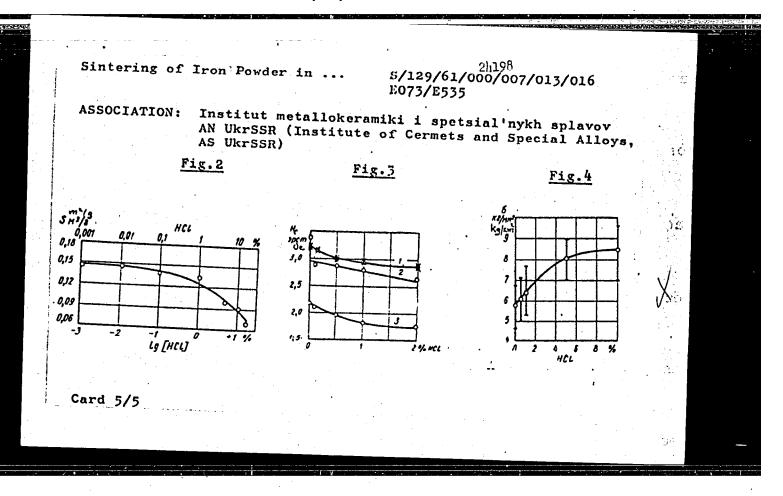
Sintering of Iron Powder and

S/129/61/000/007/013/016 F073/E535

97.7% Fe tot. The magnetic properties were measured by a ballistic method, the specific surface was measured by the permeability method. The change in the specific surface, the coercise force and the UTS as a function of the volume concentration of the hydrogen chloride in the hydrogen were measured using the same methods as were used in the earlier work (Ref.1). Fig.2 shows the change in the specific surface of the specimen, s, m^2/g_s during sintering as a function of the volume concentration of HC1 sporosity of the pressed specimens about 30%, specific surface of the non-sintered specimens $0.17~\text{m}^2/\text{g}_{\odot}$ sintering at 1200°C for 15 min). Fig. 3 shows the coercive force, H, Oe, of briquettes as a function of the volume concentration. %, of the HCl in the sintering atmosphere, sintering at 1200°C; curve 1 -15 min, initial porosity 30% curve 2 - 15 min, initial porosity 23%, curve 3 - 3-4 hours, initial porosity 10%. Fig.4 shows the change in the strength, o. kg/mm2, of rolled strap specimens $(7 \times 1 \times 60 \text{ mm})$ as a function of the HCl concentration in the sintering atmosphere for an initial porosity of 30%, a sintering temperature of 1200°C and a sintering time of 30 min. The Card 2/5

24198
Sintering of Iron Powder in ... ~/109/61/000/007/013/010
bc/73/0539

as not sufficient to obtain sintered iron components with properties approaching the properties of compact components and, therefore, the specimens are usually twice pressed and sintered, the influence of preliminary sintering on the properties of the components after agessing and sintering was investigated and the results are tabutated. In improvement in the properties on sintering in a discontinuous activation of was observed only after sintering times osciending 10 to 15 min. since shorter times are not sufficient for the reaction to nroceed to any appreciable degree, on improvement in the properties by 25 to 40% can be achieved. The properties of the final product will be the better the higher the properties of the specimens after the first santering. By using an atmosphere of h, + 10% HCL in the preliminary sintering (15.90 min at 1100°C to 1200°C). properties equalling those of cast, electrical steel 3 (E) can be echieved after final pressing to a density of 7.7-7, b and sintering at 1200°C for I hours. There were tigures, 2 tables and 6 references: 3 Soviet and 3 non-coviet. the English-language reference reads as follows, etcinite, v. Journal mod. Phys v 20. 3949) card 4/5



S/226/62/000/002/006/010 1003/I203

AUTHOR:

Andriyevskiy, R. A. and Dmitriyeva, M. A.

TITLE:

Iron-copper metal powder filters

PERIODICAL: Poroshkovaya metallurgiya, no. 2, 1962, 66-73

TEXT: The investigation was carried out because of the great demand for filters for crude oil, diesel fuels and lubricants. Phosphor, nickel and copper were added, but the results obtained indicate that the best permeability is attained with compositions of Fe + 10% Cu added as CuCl₂) sintered in an atmosphere of hydrogen chloride. The optimum temperature for sintering iron-copper filters is 1100-1150°C. The authors have no knowledge of any thorough method of improving the poor corrosion resistance of iron-copper powder filters apart from either treatment in nitrate baths or oxidation by heating them to 300-400°C exposed to the atmosphere and quenching in oil. There are 6 figures.

ASSOCIATION: Institut metallokeramiki i spetsial'nykh splavov AN USSR (Institute of Powder Metallurtgy

and Special Alloys AS UkrSSR)

SUBMITTED:

December 12, 1961

Card 1/1

ANDRIYEVSKIY, R.A.

"Fundamental principles of powder metallurgy" by W.D. Jones. Reviewed by R.A. Andrievskii. Porosh. met. 2 no.3:112-114 My-Je *62.

(MIRA 15:7)

(Powder metallurgy) (Jones, W.D.)

ANDRIYEVSKIY, R.A.; SOLONIN, S.M.

Calculating isobaric potentials of reactions occurring during the sintering of alloyed steel in HCl and HF media. Porosh. met. 2 no.4:94-99 Jl-Ag '62. (MIRA 15:8)

1. Institut metallokeramiki i spetsial'nykh splavov AN UkrSSR. (Powder metallurgy)

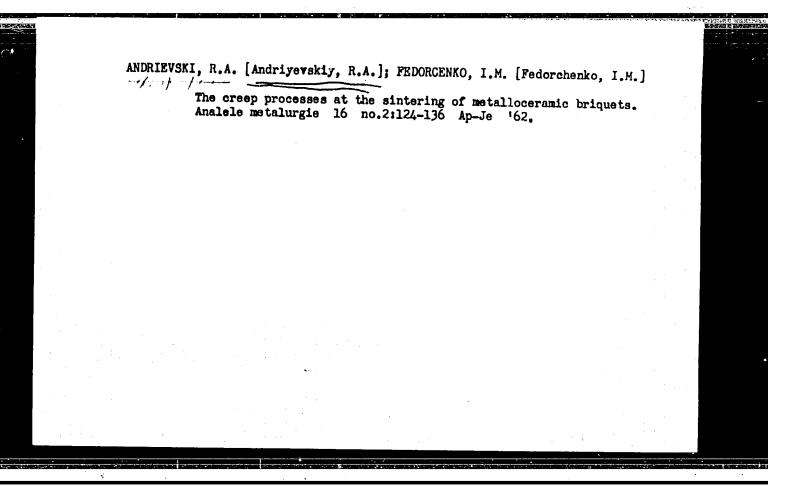
ANDRIYEVSKIY, R.A.; TEVEROVSKIY, B.Z.

Investigating the permeability to gas and the fineness of cleaning of nonspherical powder filters. Porosh. met. 3 no.1:69-74 Ja-F 163. (MIRA 16:3)

1. Institut metallokeramiki i spetsial'nykh splavov AN UkrSSR i Dnepropetrovskiy metallurgicheskiy institut.

(Filters and filtration—Cleaning)

(Metal powders—Permeability)



ANDRIEVSKI, R.A. [Andriyevskiy, R.A.]; HOLEAVENKO, K.H. [Kholyavenko, K.M.]; PILEANKEVICI, A.N. [Pilyankevich, A.N.]

Specific surfaces of metallic powders studies comparatively and by various methods. Analele metalurgie 16 no.2:137-141 Ap-Je '62.

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000101420016-6

HIYYKLYLUSAYA,A.M.

AID Nr. 983-9 5 June

CORROSION RESISTANCE OF SINTERED Cr-Ni STEELS (USSR)

Andriyevskiy, R. A., and V. P. Kopylova. Poroshkovaya metallurgiya, no. 2, Mar-Apr 1963, 49-54. S/226/63/000/002/007/014

The Institute of Powder Metallurgy and Special Alloys of the Ukrainian Academy of Sciences has studied the corrosion resistance of sintered Cr-Ni stainless steels X17H2 [AISI 431] (2% Ni, 0.15% Si), X23H18 [AISI 310], 1X18H9T [AISI 321], and 0X18H9 [AISI 302]. Test specimens 5 x 7 x 40 mm with a residual porosity of 38 ± 1% were prepared by cold compacting and sintering at 1200°C for 2 hrs in a hydrogen atmosphere. The corrosive media were 10%, 50%, and concentrated HNO3, 10% H₂SO₄, 10% NaOH, and tap water. The changes in electric resistivity of specimens and the amount of dissolved iron were the criteria of corrosion resistance. Results showed the austenitic X23H18 steel to be the most corrosion resistant. The 1X18H9T steel had the least resistance, probably because of the presence of Ti, which makes the steel extremely sensitive to the mosture content in hydrogen.

Card 1/2

AID Nr. 983-9 5 June

CORROSION RESISTANCE [Cont'd]

\$/226/63/000/002/007/014

The X17H2 and 0X18H9 steels were about equally corrosion resistant, except in 10% H₂SO₄, in which the X17H2 disintegrated completely after a 5-hr test. In NaOH and HNO₃ all tested steels were passivated; corrosion rate was low. The corrosion rate was also low in tap water. In general, the corrosion behavior of the porous stainless steels studied was similar to that of cast steels. The shear strength of all steels after 2000-hr corrosion tests decreased, especially those tested in 10% and concentrated HNO₃. The 10% NaOH and water did not substantially affect shear strength, except that of 1X19H9T steel, whose initial shear strength of 18 kg/mm² dropped to 11.5 and 10.5 kg/mm² after tests in 10% NaOH and water, respectively. Specimens tested in 10% H₂Siy disintegrated after a 500-1000-hr test.

Card 2/2

S/226/63/000/001/010/016 E039/E435

AUTHORS:

Andriyevskiy, R.A., Teverovskiy, B.Z.

TITLE:

Investigation of gas permeability and fineness of purification of filters made of non-specific powders

PERIODICAL: Poroshkovaya metallurgiya, no.1, 1963, 69-74 If waste gases from blast furnaces could be subjected to dry purification and used in gas turbines, a saving of not less than 2 million tons of conventional fuel per year could be attained. The sample filters Hence the interest in powdered metal filters. tested were in the form of tubes 50 mm diameter with a wall thickness of 5 mm and length ~50 mm when prepared by the usual method of pressing, and ~100 mm long when prepared by extrusion. The filters were made from reduced powdered alloy steel type X1712 The resistance of these filters was measured by blowing Kh17N2). through them air in which was dispersed blast furnace dust. A special apparatus including a proportioning hopper and Venturi mixer enabled a uniform distribution of dust to be obtained. pure air a linear relation between the resistance specific loading Q was obtained $\Delta P = f(Q)$

Card 1/3

Investigation of gas ...

\$/226/63/000/001/010/016 E039/E435

for values of Q up to $\sim 20~\text{m}^3/\text{m}^2$ min. When using dust laden air it is shown that the filters are not subject to regeneration. The thickness of the dust layer deposited on the filter is given by

$$\mathbf{h} \stackrel{\mathbf{qot}}{\longrightarrow} \mathbf{\hat{T}} \mathbf{H}$$

where q - defines the dust content g/m^3 , Q - specific loading m^3/m^2 min, t - time, min; γ_H - weight of one cubic meter of dust. The permeability coefficient α (cm²) for the dust layer is given by

 $\alpha = 1.7 \cdot 10^{-6} \frac{Q^2 qt\eta}{\gamma_H \Delta P}$ (2)

where η - viscosity (poise), ΔP - resistance of dust layer, in mm of water. Values of α for all the samples calculated from Eq.(2) for $Q \sim 4m^3/m^2$ min vary from 5.3 to 13.1 x 10^{-10}cm^2 . This is for two reasons. Firstly, Eq.(2) is based on the assumption that the dust particles do not penetrate into the pores of the filter and secondly, conditions of experiment were not always Card 2/3

S/226/63/000/001/010/016

Investigation of gas ...

identical. There are 3 figures and 2 tables.

ASSOCIATIONS: Institut metallokeramiki i spetsial'nykh splavov
AN USSR (Institute of Powder Metallurgy and Special
Alloys AS UkrSSR)
Dnepropetrovskiy metallurgicheskiy institut
(Dnepropetrovsk Metallurgical Institute)

SUBMITTED: May 10, 1962

ANDRIYEVSKIY, R., kand. tekhn. nauk

From the primitive hearth to modern materials. Tekh. mol. 31
no.6:35-36 '63. (MIRA 16:7)

(Powder metallurgy)

ANDRIYEVSKIY, R.A. (Kiyev); KALIKHMAN, V.L. (Kiyev); SOLONIN, S.M. (Kiyev)

Effect of sintering temperatures on the shrinkage, properties and the structure of briquets made of chromtum-nickel steel powders. Izv. AN SSSR. Otd. tekh. nauk. Met. i gor. delo no.2:104-111 Mr-Ap '63.

(MIRA 16:10)

ACCESSION NR: AF4040470 S/0226/64/000/003/0032/0039

AUTHOR: Andriyevskiy, R. A.; Solonin, S. M.

TITLE: Sintering of chromium-nickel-steel powders

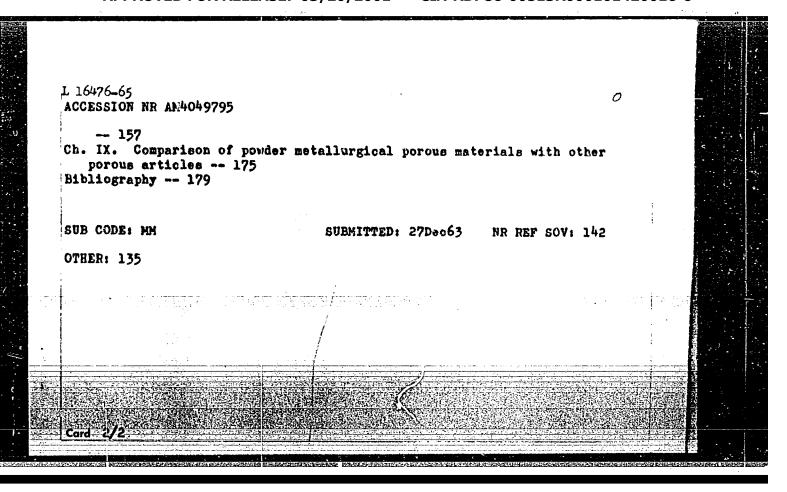
SOURCE: Poroshkovaya metallurgiya, no. 3 (21), 1964, 32-39

TOPIC TAGS: stainless steel powder, powder sintering, powder phase composition, powder property, powder composition, sintered stainless steel

ABSTRACT: The sintering of powders of stainless steels Kh30 (AISI-446) Kh17N2 (AISI-431), Kh23N18 (AISI-310), 1Kh18N9T (AISI-321), and OKh18N9 (AISI-304), obtained by the reduction of chromium and nickel oxides, has been studied. Ferritic steel powders are more easily sintered than austenitic steel powders because of the presence of oxides on the surface of particles of austenitic steel powders. ,Kh30 and 1Kh18N9T steel powders are homogeneous in the initial condition, whereas OX18N9 and Kh23N18 steel powders are heterogeneous. All these steels are homogeneous in the sintered condition. Shrinkage and strength increases with increasing temperature, particularly in

Cord 1/2

L 16476-65 EWP(e)/EWT(m)/EWP(k)/EWP(b)/EWP(t) Pf-4 MCD(gs)/ESD(t)/BSD/AFWL/ ASD(m)-7 JD ACCESSION NR AM4049795 BOOK EXPLOITATION s/ Andriyevskiy, Rostislav Aleksandrovich 6:41 Porous metal powder products (Poristy ye metallokeramicheskiye materialy), Moscow, Izd-vo "Metallurgiya", 1964, 186 p. illus., biblio. Errata slip inserted. 3,200 copies printed. TOPIC TAGS: powder metralorgy, porous powder metallurgical product, filter TABLE OF CONTENTS [abridged]: Foreword -- 5 Introduction -- 7 Ch. I. Obtaining powders -- 11 Ch. II. Pressing and molding -- 38 Ch. III. Sintering and additional processing -- 55 Ch. IV. Filtering properties
Ch. V. Mechanical and physical properties -- 119 Ch. VI. Chemical properties -- 129 Ch. VII. Porous powder metallurgical materials as filters -- 142 Ch. VIII. Materials in the use of which porosity and permeability are used Card 1/2



DARL WER, Ye.A., wond. takkn. Track; TEVEROUNKIT, N.T., kand. takkn. hand:

OLYMLE, Yo.D.; PYDARCHEMY, J..., accounts; POTH, V.S.;

STALITCKIY, V.I.; AURITENVAKIY, E.A.

Dry cleaning of blast furnace cas in ceramic metal filters.

Mot. 1 gornorud. prom. no.6:12-17 N-D 164.

(MRA 18:3)

1. Akademiya nauk Ukrašk (for Fenorchemac).

L 15736-65 EWP(e)/EWT(m)/EWA(d)/EWP(v)/EWP(t)/EWP(k)/EWP() Pf-4 MJW/JD/HM/
ACCESSION NR: APAGA4915 HW/VR S/0226/64/000/004/0091/0096 ACCESSION NR: AP4044915 HW/YB AUTHOR: Kakhovskiy, N. I.; Ponizovtsev, A. M.; Andrivevskiy, R. A.; Solonin, S. H. TITLE: Welding of porous whigh-alloy Kh17N2 sterel SOURCE: Poroshkovaya metallurgiya, no. 4, 1964. 91-96 TOPIC TAGS: stainless Kh17N2 steel, sintered Kh17N2 steel, sintered stainless steel welding, weld metal property, weld metal corrosion resistance 18 ABSTRACT: Plates, 40 x 60 x 3 mm, and bushings, 50--70 mm in diameter with a porosity varying from 30 to 60%, made by the powdermetallurgy method from Kh17N2 stainless steel powder (C.17 C, 16.9% Cr, 2% Ni, 0.15% Ni), were TIG welded with or without filler wire, or CO2 welded with a consumable electrode. TIG welding without filler wire produced sound welds in steel with a porosity up to 30%. The optimum conditions for welding 5-mm thick metal were: electrode Card 1/3

L 15736-65 ACCESSION NR: AP4044915

diameter, 1.0--1.2 mm; current, 70--80a; voltage, 8--9v; welding speed, 18--22 m/hr. For thinner metal the current should be lower. Filler wire should be used in welding metal with a higher porosity. In both argon-arc and consumable-electrode CO2 welding of porous, high-alloy austenitic and martensitic steels, austenitic standard filler wire Sv-08Kh2ON9G7T, Sv-08Kh2ON10G6, Sv-10Kh2ON15, or Sv-06Kh18N9T produce weld metal with satisfactory microstructure, mechanical properties, corrosion resistance, and ductility. In consumable-electrode CO2 welding, the electrode diameter should be 0.6--0.7 mm max. Annealing in dry hydrogen at 1200C for 1 hr and subsequent normalization improve corresion resistance of metal in the heat-affected zone. The annealing, however, decreases the microhardness of the weld metal from 170 to 75--90 dan/mm^2 and that of the parent metal from 100--180 to 75--120 dan/mm². A somewhat higher porosity was observed in the fusion zone, although in the annealed metal it appeared to be uniform. Orig. art. has: 5 figures and 1 table.

Card 2/3

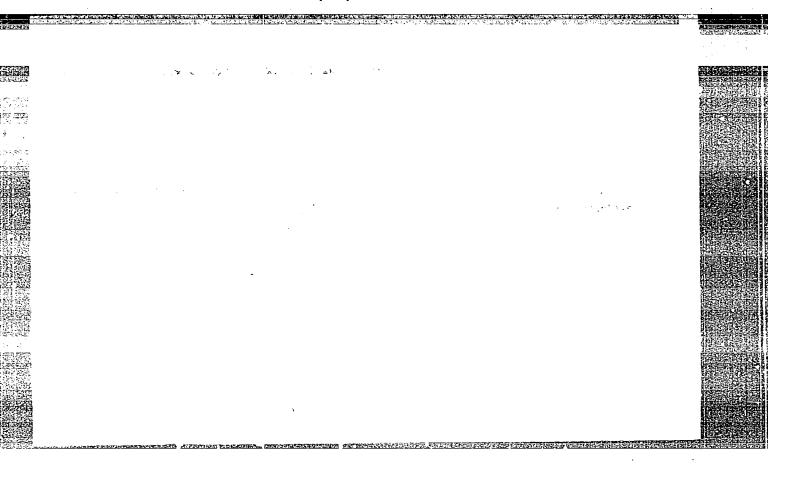
•			7 (** 1.2**) 1 (** 1.2**) 1 (** 1.2**)		
L	15736-65				
	ACCESSION	NR: AP404491	5. The second of	2	Y (1)
1, 7			Elektrosvarki im. Ye. O.	Patona AN IMPSSR	Name and
	ASSOCIATIO	ON: Institut	te AN UkrSSR); Institut p	roblem materialoved=	A STATE OF THE STA
	(Electrove	Blding institu	e of the Science of Mater	rials AN UkrSSR)	
,	eniya An	OKTOOM THE LIEUE	g of the other of moor		
	SUBHITTED	: 17Apr63		ENCL: 00	
	SUB CODE:	MM, IE	NO REF SOV: 002	CTHER: 002	
				\$ •	
:		÷		Į.	
1		.		;	
12.72					Single
	•				
	•	· . · · ·		1	7.0
			154.	the state of the s	
:					
				1	
	Card 3/3				

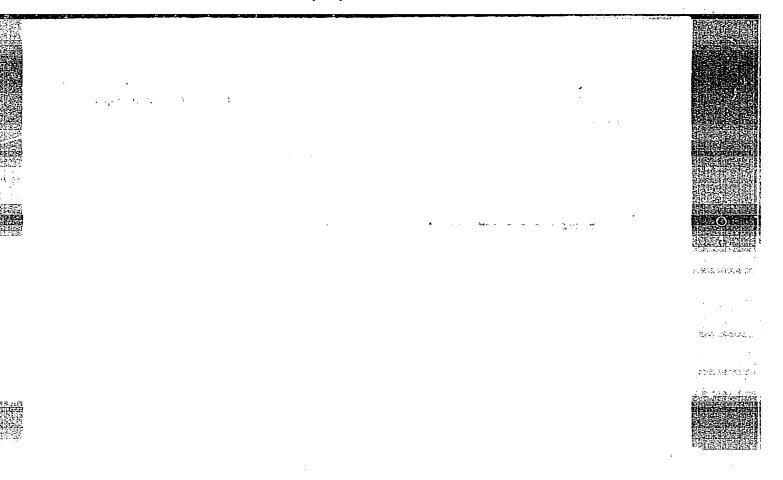
KONEV, F.A.; TIMOFEYEV, V.V.; FEDORCHENKO, I.M.; ANDRIYEVSKIY, R.A.

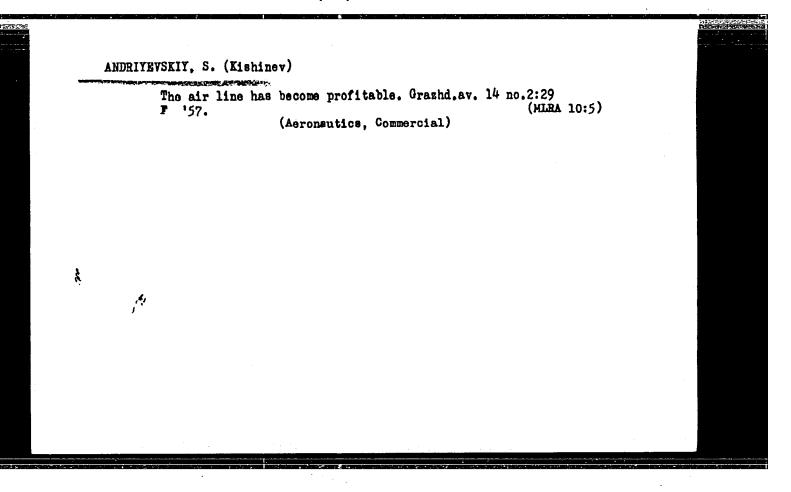
Ceramic metal filters for the filtration of air and water.

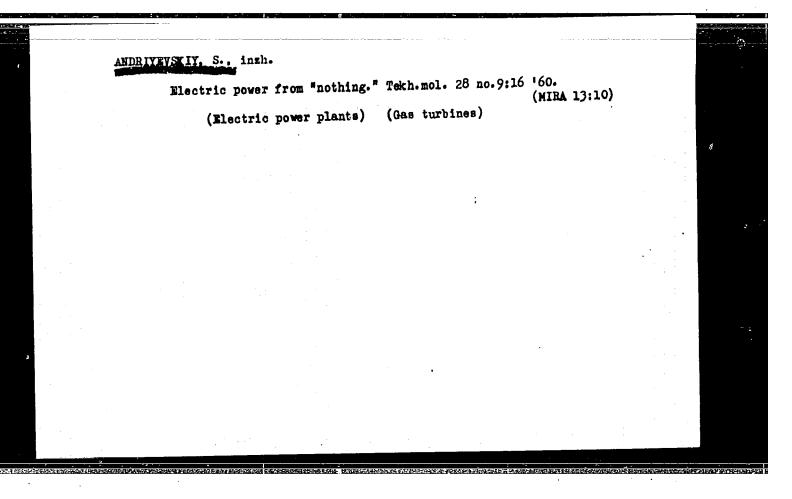
Porosh. met. 4 no.6:84-88 N-D '64. (MIRA 18:3)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevti-cheskiy institut i Institut problem materialovedeniya AN UkrSSR.









ANDRIYEVSKIY, S. (Kiyev)

Engineers and technicians discuss the plans of new equipment. NTO 5 no.10:5-7 0 '63. (MIRA (MIRA 17:1)

1. Spetsial'nyy korrespondent zhurnala "Nauchno-tekhnicheskiye obshchestva SSSR".

CIA-RDP86-00513R000101420016-6" **APPROVED FOR RELEASE: 03/20/2001**

ANDRIYEVSKIY, S. K.

Remont elektricheskikh mashin i puskoreguliruiushchei apparatury Repairing electric machines and starter-control apparatus. Kiev, Gostekhizdat USSR, 1952. 208 p.

SO: Monthly List of Russian Accessions, Vol 6 No 6 September 1953

ANDRIYEVSKIY, S.K.; SHAPIRO, M.N. [authors]; TURTIN, I.C., master [reviewer].

"Repair of electrical machines and of start regulating apparatus." S.K. Andrievskii, M.N.Shapiro. Reviewed by I.S.Turtin. Energetik 1 no.1:39-40 (MLRA 6:8)

(Andrievskii, S.K.) (Shapiro, M.N.) (Electric machinery)

ANDRIYEVSKIY, Sergey Konstantinovich; SHAPIRO, Mikhail Naumovich; PISAHENKO, W., Tedaktof; GOLOVCHENKO, G,M tekhnicheskiy redaktor.

- 3

[Repair of electric machines and starter-control apparatus]
Remont elektricheskikh mashin i puskoreguliruiushchei apparatury. Isd.2-oe, dop. i ispr. Kiev, Gos.isd-vo tekhn.lit-ry
USSR, 1955. 245 p. (MLRA 8:12)
(Electric machinery-Maintenance and repair)

ANDRIVEYS'KIV. Sergiv Kostvantinovich; SHAPIRO, Mikhaylo Naumovich; KILIHNIL, N.I., redaktor; SIDNYEV, P.P., redaktor; MONZHERAN, V.F., tekhnichniy redaktor

[Principles of electric engineering; a textbook for students of secondary schools] Osnovy elektrotekhniky; posibnyk dlia uchniv seredn'oi shkoly. Kyiv, Dersh. uchbovo-pedagog. vyd-vo "Radians'ka shkola," 1957. 294 p. (MLRA 10:6)

(Electric engineering)

ROZENBERG, M.I.; ANDRIYEVSKIY, S.K.; PUSHKAREV, N.A.

[Readings in physics] Kniga dlia chteniia po fizika. Sost. S.K.Andrievskii, N.A.Pushkarev i M.I.Rozenberg. Moskva, Gos. uchebno-pedagog.isd-vo. Pt.1. [Mechanics] Mekhanika. 1958. (HIRA 14:1)

(Mechanics)

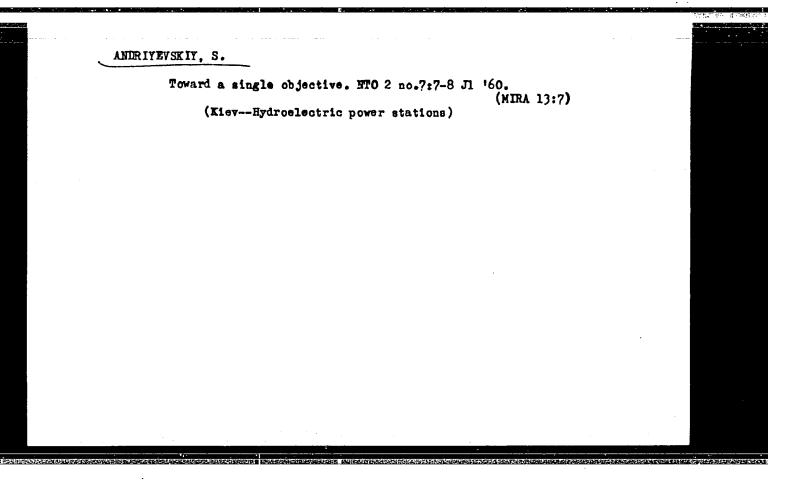
ANDRIYEVSKIY, Sergey Konstantinovich; SHAPIRO, Mikhail Naumovich; GARKUSHA, V., red.; SHAFETA, S., tekhn.red.

[Overhauling of electrical machinery and apparatus for the regulation of starting] Remont elektricheskikh mashin i puskoreguliruiushchei apparatury. Izd.2., ispr. i dop. Kiev. Gcs.izd-vo tekhn.lit-ry USSR, 1959. 277 p. (MIRA 12:12) (Electric machinery--Maintenance and repair)

ANDRIEVSKIY, Sergey Konstantinovich; BARTHOVSKIY, A.L.

[Practical manual for electrical engineering; a textbook for grade 10 of the secondary school]Praktikum po elektrotekhnike; uchebnoe posobie dlia uchashchikhsia X klassa srednei shkoly. Izd.3., perer. Moskva, Gos.uchebno-pedagog.izd-vo, 1960. 191 p.

(Electric engineering)



"APPROVED FOR RELEASE: 03/20/2001 C

CIA-RDP86-00513R000101420016-6

\$/029/60/000/009/005/008 B013/B060

AUTHOR:

Andriyevskiy, S., Engineer

TITLE:

Electric Power From "Nothing"

PERIODICAL:

Tekhnika molodezhi, 1960, No. 9, p. 16

TEXT: The author reports on a turbine installed at the Kiyevskaya gazoraspredelitel naya stantsiya No. 1 (Kiyev Gas Distribution Station No. 1), which is connected with an electric generator and apparently works without any energy source. At Station No. 1, the pressure of the gas supplied from Dashava to Kiyev is reduced from an average of 20 atm to a consumption pressure of 3 atm. Engineer A. V. Aleksandrov of the Moskovskoye upravleniye magistral nykh gazoprovodov (Moscow Administration of Main Gas Conduits) found a way of utilizing the excess energy set free in the process. The system installed in Kiyev was assembled on his recommendation. In fact, this system derives its energy from compressors operating in a remote substation, and makes use of an ordinary, very tightly sealed-off steam turbine. It is connected with a triphase current generator delivering the generated energy to the municipal power line over

Card 1/2

ANDRIYEVSKIY, S.K. [Abdriievs'kyi, S.K.], inzh.

The flame of sky-blue lights. Nauka i zhittia 10 no.8:17-18 Ag '60.

(Gas, Natural)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101420016-6"

ANDRIYEVSKIY, Sergey Konstantinovich [Andriievs'kyi, S.K.], inzh.;

TSVYAKH, V.M., inzh., retsenzent; DEREVETS', S.K., red., izd-va; STARODUB, T.O., tekhn. red.

[Electricity in everyday life] Elektryka v pobuti. Kyiv, Derzhtekhvydav URSR, 1962. 118 p. (MIRA 16:6) (Household appliances, Electric) (Electric wiring)

ANDRIYEVSKII, S.M., kandidat tekhnicheskikh nauk; SHESTAKOV, V. N., kandidat
Vernaturestikh nauk.

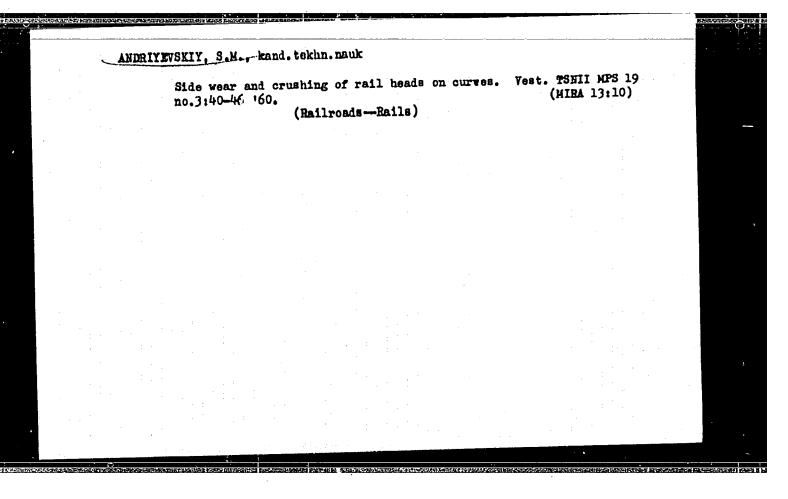
Lateral wear of rails on curves. Vest.TSNII MPS no.1:22-29 F 157.
(MLRA 10:3)

(Railroads--Rails)

ANDRIYEVSKIY, S.M., kand, tekhn. nauk; MELENT'YEV, L.P., kand. tekhn. nauk.

Two stages in the lateral wear of rails on curves. Vest. TSHII MPS
17 no.4:19-22 Je '58. (MIRA 11:6)

(Railroads--Rails) (Mechanical wear)



ANDRIYEVSKIY, S.M.; POPOV, A.V., inzh, red.; KHITROVA, N.A., tekhn.red.

[side wear of rails on curves] Bokovoi iznos rel'sov na krivykh.

Moskva, Vses. izdatel'sko-poligr. ob"edinenie m-va putei soob.,

1961.126 p. (Moscow. Vsesoiumyi nauchno-issledovatel'skii

institut shele'snodorozhnogo transporta. Trudy, no.207).

(MIRA 14:5)

(Railroads—Rails)

ANDRIYEVSKIY, S.M., kand.tekhn.nauk; ZOL'NIKOV, S.S., kand.tekhn.nauk; KISELEV, A.I., inzh.; KOROLEV, K.P., doktor tekhn.nauk, prof.; KRYLOV, V.A., kand.tekhn.nauk; SHESTAKOV, V.N., kand.tekhn.nauk; VERIGO, M.F., doktor tekhn.nauk; KREPKOGORSKIY, S.S., kand. VERIGO, M.F., doktor tekhn.nauk; retsenzent; tekhn.nauk; IVANOV, V.V., doktor tekhn.nauk, retsenzent; ORLOVA, I.A., inzh.red.; VOROB'YEVA, L.V., tekhn.red.

[Truck-type locomotive underframes for high-speed traffic]
Telezhechnye ekipazhi lokomotivov dlia povyshennykh skorostei
dvizheniia. Moskva, Vses. izdatel'sko-poligr. ob"edinenie
M-va putei soobshcheniia, 1962. 303 p. (Moscow. Vsesoiuznyi
M-va putei soobshcheniia, 1962. 303 p. (Moscow. Vsesoiuznyi
nauchno-issledovatel'skii institut zheleznodorozhnogo
nauchno-issledovatel'skii institut zheleznodorozhnogo
transporta. Trudy, no.248).

(Locomotives-Design and construction)
(Railroad engineering)

ANDRIYEVSKIY, V.; GRIGOR'YAN, G.; SHLYAPNIKOVA, A., starshiy inzhener

New rules are needed for the technical operation of loading and unloading machines. Mor. flot 22 no.5:6-8 My '62. (MIRA 15:5)

1. Nachal'nik otdela po tekhnicheskoy ekspluatatsii Leningradskogo instituta po proyektirovaniyu morskikh portov i sudoremontnykh predpriyatiy (for Andriyevskiy).

(Harbors-Regulations)

(Cargo handling--Equipment and supplies)

BUYAL'EKIY, G.; ANDRIYEVCKIY, V.; GAVRILOV, I., Inch.; STECHENCO, V.; SIDONENKO, T.

Outstanding workers. Avt. tronsp. 43 no.8:6 Ag 165.

(NIRA 18:9)

ANDRIYEVSKITOVIE

ABRAMOV, S.K., kand.tekhn.mauk; AVERSHIN, S.O., prof., doktor tekhn.nauk; AMMOSOV, I.I., doktor geol.-min.nauk; AMRIYEVSKIY, V.D., inzh.;
AMTROPOV, A.N., inzh.; AFANAS YEV, B.L., inzh.; BERGMAN, Ya.V.,
inzh.; BLOKHA, Ye.Ye., inzh.; BOGACHEVA, Ye.N., inzh.; BUKRINSKIY, V.A., kand.tekhn.nauk; VASIL'YEV, P.V., doktor geol.-min.nauk; VINOGRADOV, B.G., inzh.; GOLUBEV, S.A., inzh.; GORDIYENKO, P.D., inzh.; GUSEV, N.A., kand.tekhn.nauk; DOROKHIH, I.V., kand.geol.-min.nauk; KALMYKOV, G.S., ingh .; KASATOCHKIN, V.I., doktor khim nauk; KOROLEV, I.V., ingh .; KOSTLIVTSEV, A.A., inch.; KRATKOVSKIY, L.F., inch.; KRASHENINNIKOV, G.F., prof. doktor geol.-min.usuk; KRIKUNOV, L.A., inzh.; LEVIT, D.Ye., inzh.; LISITSA, I.G., kand.tekhn.nauk; LUSHNIKOV, V.A., inzh.; MATVEYEV, A.K., dots., kand.geol.-min.nauk; MEPUHISHVILI, G.Ye., iznh.; MIRONOV, K.V., inzh.; MOLCHANOV, E.I., iznh.; NAUMOVA, S.N., starshiy nauchnyy sotrudnik; HEKIPELOV, V.Ye., inzh., PAVIOV, F.F., doktor tekhn.nauk; PANYUKOV, P.N., doktor geol.-min.nauk; POPOV, V.S., inzh.; PYATLIN, M.P., kand.tekhn. nauk; RASHKOVSKIY, Ya.E., inzh.; ROMANOV, V.A., prof., doktor tekhn. nauk; RYZHOV, P.A., prof., doktor tekhn.nauk; SELYATITSKIY, G.A., inzh.; SPERANSKIY, M.A., inzh.; TERENT YEV, Ye.V., inzh.; TITOV, N.G., doktor khim.nauk; GOKAREV, I.F., inzh.; TROYANSKIY, S.V., prof., doktor geol .min.nauk; FEDOROV, B.D., dots., kand.tekhn.nauk; FEDOROV, V.S., insh. [deceased]; KHCMENTOVSKIY, A.S., prof., doktor geol.-min.nauk; TROYANOV-SKIY, S.V., otvetstvennyy red.; TERPIGOREV, A.M., red.; KRIKUNOV, L.A., red.; KUZNETSOV, I.A., red.; MIRONOV, K.V., red.; AVERSHIN, S.G., red.; BURTSEV, M.P., red.; VASIL'YEV, P.V., red.; MOLCHANOV, I.I., red.; RYZHOV, P.A., red.; BALANDIN, V.V., inzh., red.; BLOKH, I.M., kand. tekhn.nauk, red.; BUKRINSKIY, V.A., kand.tekhn.nauk, red.; VOLKOV, K.Yu., inzh., red.; VOROB'YEV, A.A., inzh., red.; ZVONAREV, K.A., prof. doktor tokhn nauk, red. (Continued on next card)

ABRAMOV, S.K.—— (continued) Card 2.

ZDANOVICH, V.G., prof., doktor takhn.nauk, red.; IVANOV, G.A., doktor geol.—min.nauk, red.; KOROTKOV, M.V., kand.tekhn.nauk, red.; KOROTKOV, G.V., kand.geol.—min.nauk, red.; KOROTKOV, M.V., kand.tekhn.nauk, red.; MAKKAVETEV, A.A., doktor geol.—min.nauk, red.; ORLI-GHENKO, A.N., kand.tekhn.usuk, red.; SENDREZON, E.M., kand.geol.—min.nauk, red.; USHAKOV, I.N., dots., kand. tekhn.nauk, red.; YABLOKOV, V.S., kand.geol.—min.nauk, red.; KOROLNYA, T.I., red.izd-va; KACHALKINA, E.I., red.izd-va; FROZOROVSKAYA, F.L., tekhn.red.; NADHIRSKAYA, A.A., tekhn.red.

[Mining; an encyclopedia handbook] Gornoe delo; entsiklopedicheskii apravochnik. Glav. red. A.M.Terpigorev. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po ugol'nc; promyshl. Vol.2. [Geology of coal deposits and surveying] Geologiis ugol'nykh mestorozhdenii i marksheiderskoe delo. Redkolegiis tora S.V.Troisnekiy. 1957. 646 p. (MIRA 11:5)

1. Ghlen-korrespondent AN SSSR (for Karaveyev)

(Coal geology-Dictionaries)

ANDRIYEVSKIY, V.D., Cand Geol-Kin Sci — (diss) "Litologo- invironmental characteristics and prospects of coal-bearing preparties of a substratum coal deposits of Yuzhno-Kugodsharskiy Rayon." Mos, 1959. 2011. (Kin of Higher faucation USSR. Mos, Order of Lenin State U im	
H.V. Lomonosov), 110 copies (KL,40-59, 102)	i
15	

SKOBLOV, D.A., inzh., red.; ANDRIYEVSKIY, -V.G., kand. tekhn. nauk, red.; SOLOV'YEV, S.P., kand. tekhn. nauk

[Construction specifications and regulations] Stroitel'nye normy i pravila. Moskva, Gosstroizdat. Pt.l. Sec.V. ch.20.

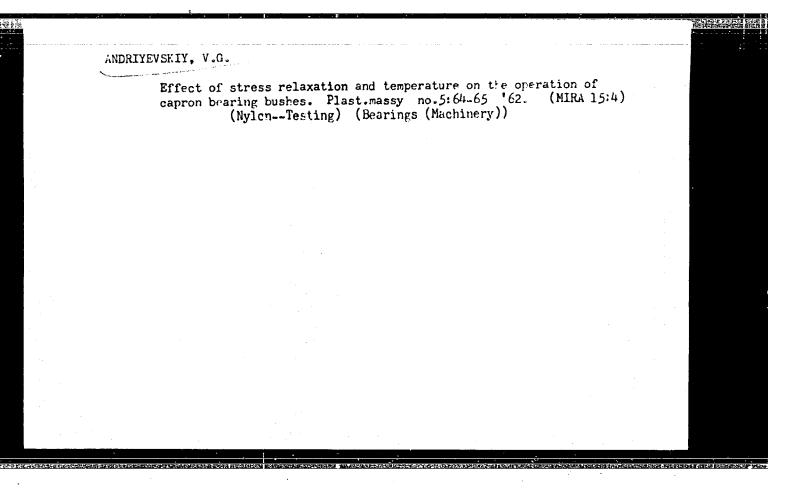
[Articles for filling openings and skylights] Izdeliia dlia zapolneniia proemov i fonarei (SNiP I-V. 20-62). 1963. 6 p.

(MIRA 17:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Skoblov). 3. Mezhvedomstvennaya komissiya po peresmotru Stroitel'nykh norm i pravil (for Andriyevskiy). 4. TSentral'nyy nauchno-issledovatel'skiy institut eksperimental'nogo proyektirovaniya zhilishcha Akademii stroitel'stva i arkhitektury SSSR (for Solov'yev).

VINOGRADOV, A.I., prof., doktor tekhn.nauk; ANDRIYEVSKIY, V.G., assistent

Model of an elastic-viscous medium and its application for the specification of the mechanical characteristics of secondary capron. Trudy KHIIT no.45100-121 '61. (MIRA 15:5) (Elasticity-Models) (Nylon)



L 18462-63 EPF(c)/EWP(j)/EWT(m)/BDS/ES(v) AFFTC/ASD Pc-4/Pr-4/
Pe-4 RM/WW/MAY
ACCESSION NR: AR3006451 S/0124/63/000/003/V079/V079

SOURCE: RZh. Mekhanika, Abs. 8V665

72

AUTHOR: Vinogradov, A. I.; Andriyevskiy, V. G.

TITLE: On energetic theory of durability of a viscoelastic material

CITED SOURCE: Nauchn. tr. Khar'kovsk. in-t inzh. zh.-d. transp., vy*p. 58, 1962, 109-120

TOPIC TAGS: viscoelastic, viscoelasticity, high polymer, durability, energetic theory, energy conservation, Kapron, heat capacity, torsion

TRANSLATION: This paper proposes and experimentally verifies the premises for the approximate theory of strain and breakdown of viscoelastic media as applied to high polymers and in particular to Kapron N Attention is focussed on the case of vibratory loads which are characterized by the necessity of considering in the general case the energy of thermal exchange and the energy of increase of the heat capacity. The fundamental equation of energy dissipation for viscoelastic media based on the law of conservation of energy is described in the following form: $U = U_T + U_S + U_K$ where in unit time at the point being considered during a given

Card 1/3

L 18462-63

ACCESSION NR: AR;006451

0

time interval: U is the energy dissipation of the dissipative process, UT is the energy of thermal exchange with the surrounding medium, U_s is the increase of the heat capacity (during the increase of temperature), U_k is the energy dissipated in connection with the variation of the structure and physical properties of the material. The authors distinguish the special case of the deformation process with a vibrated load, separating the relative value of the components of the total scattered energy of the dissipative process. In all cases one may consider both stable and unstable systems of deformation. Consideration is made of definite energy of the dissipative process for linear stressed states of various models of elastically connected media: 1) elastically connected elements with parallel coupling of elastic and viscous components; 2) a model in which the elastic and viscous elements are joined or in series; 3) a model of a viscoelastic element with four parameters. Experimental studies were conducted on samples of second order Kapron. The sample was worked, as a cantilever arm loaded at the end by a force. The test cycle was symmetric. The experiments were conducted at a temperature of $20 \pm 2^{\circ}$ and at relative humidity of 40-50%. An apparatus was introduced on which the magnitude of the sag, the temperature of the sample and the torsional moment were measured and recorded on a self-recording galvanometer tape. The separation into the three special cases of the process of testing with a vibratory load was experimentally verified: 1) for sufficiently small loads on the sample (up to 250

Card 2/3

ACCESSION NR: AN3006451

grams), 2) for higher loads (350-700 grams), and 3) for very high loads (greater than 700 grams). Examination was made of the characteristic peculiarities of each of these cases. Case 2) was considered more carefully, as it represents the case of greatest interest, since in use the material breaks down under analogous conditions. Thus the basic assumptions of the energetic theory of the aurability of polymers with the use of the four element model of viscoelastic media is experimentally corroborated. Bibl. 7 names. N. V. Russkov

DATE ACQ: 28Aug63

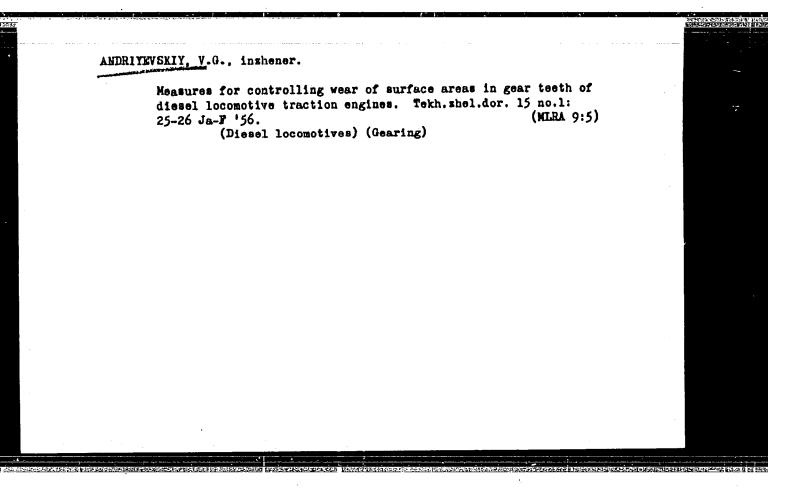
SUB CODE: MA, AP

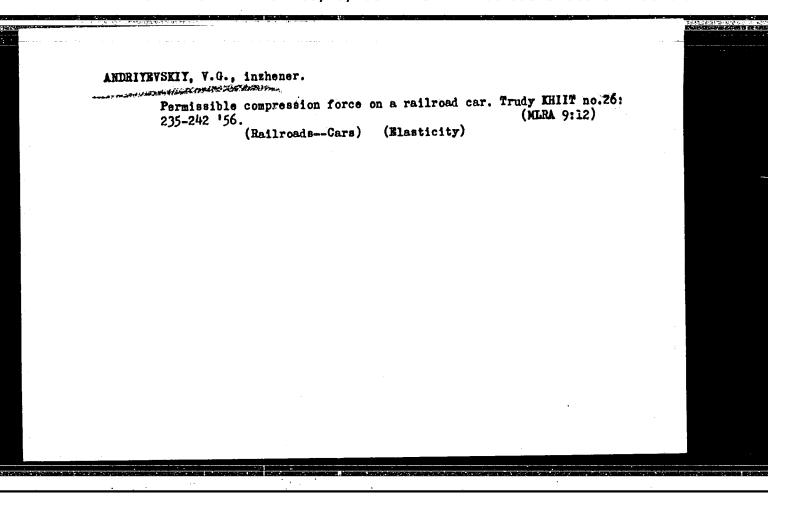
ENCL: 00

ANDRIYEVSKY, V.G. (Khar'kov)

"On the theory of deformation of polycaprolactam".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964





VOLLSHKIN, Tu.Te., (st.Verkhniy Baskunchak); ANDRIYEVSKIY, V.G.; inzhener po remontu (st.Verkhniy Baskunchak)

On the operation of gas generator diesel locomotives. Zhelpdor. transp. 39 no.2:78 f '57. (MLRA 10:3)

1. Zamestitel' nachal'nika teplovoznogo depo. (Diesel locomotives)

ANDRIYEVSKIY, V.G., inzh. (g.Khar'kov)

Ways to control dents in rails. Zhel.dor.transp. 43 no.2:45-46
F '61. (Railroads-Rails)

SAMOYLOV, S.M.; ANDRIYEVSKIY, V.N.; KOTLYAREVSKIY, I.L.

Separate determination of small amounts of ethylene exide, formaldehyde, and acetaldehyde in mixed aqueous solutions.

Izv. AN SSSR Otd.khim.nauk no.2:201-208 F *162.

(MIRA 15:2)

1. Institut nefte- i uglekhimicheskogo sinteza AN SSSR.

(Ethylene exide)

(Acetaldehyde)

(Formaldehyde)

SAMOYLOV, S.M.; KOTYAREVSKIY, I.L.; ANDRIYEVSKIY, V.N.

Study of the reaction of noncatalytic oxidation of ethane. Zhur. prikl. khim. 36 no.5:1146-1149 My '63. (MIRA 16:8)

(Ethane) (Oxidation)

KOTLYAREVSKIY, I.L.; SHVARTSBERG, M.S.; ANDRIYEVSKIY, V.N.; KRUGLOV, B.G.

Highly unsaturated polymers. Report No.7: Linear polynuclear diethinylarenes and their oxidative polycondensation. Izv. AN SSSR. Ser. khim. no.11:2032-2036 N '63. (MIRA 17:1)

1. Institut khimicheskoy kinetiki i goreniya Sibirskogo otdeleniya AN SSSR.

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000101420016-6

L 13700-66 EAT(d)/FSS-2/EAT(l)/EAP(m)/FS(v)-3/EAA(d)/EAP(v)/T/EAP(k)/EAP(h)/EAP(l)-ACC NR. AT6003567 IJP(c) GS/GW/BC SOURCE CODE: UR/0000/65/000/000/0005/0019

AUTHOR: Andriyevskiy, V. V.

ORG: none

TITLE: An optimum correction of the control program

B+1

SOURCE: Issledovaniya po dinamike poleta (Research on flight dynamics), no. 1. Moscov. Izd-vo Mashinostroyeniye, 1965, 5-19

TOPIC TAGS: optimum automatic control, error correction, thrust vector control

ABSTRACT: A control system is taken whose behavior (the trajectory) is described by the system of ordinary differential equations 76.44,55

$$Y_{i} = f_{i}(y_{1}, \dots, y_{n}; y_{n+1}),$$

$$i = 1, \dots, n,$$
(1)

where $y_1 cdots y_n$ are coordinates of the system and $y_{n+1}(t)$ is a control function (the control program). An artificial approximate method for determining the optimum control is presented in the case when certain non-optimal trajectory Y* is known in the neignborhood of which the extremal trajectory is expected to be determined or a comparatively small domain Q of allowable trajectories is known in which the extremal tra-

Card 1/3

UDC: 629.19.04.005

L 13700-66

ACC NR: AT6003567

jectory is contained. Assuming that the control $y_{n+1}^{\bullet}(t)$ ensures a certain trajectory $y^{\bullet}(t)$ in the vicinity of which the extremal solution is expected to be determined, the coordinates of the trajectory and of the control are represented as follows:

$$y_i = y_i^* + \eta i$$

 $i = 1 \dots n; n + 1,$ (2)

where n_1 (i = 1,..., n) are deviations in the coordinates of a trajectory and n_1 (i = n+1) is the deviation in the coordinate of the control. In the domain Q system (1) is expressed in the form of series in terms of approximate coordinates and deviations and the performance functional I is represented as a sum of its value I* on the trajectory Y = Y* and of the deviation ΔI when the coordinate of the system deviates from Y* by n. The initial problem of optimizing the control function $y_{n+1}(l)$ of system (1) for the domain D is formulated as follows: In the domain Q, it is to find the optimal deviation (correction) $n_{n+1 \circ p_1}(l)$ from the given control $y_{n+1}^*(l)$ which optimizes ΔI . The defined problem is equivalent to the initial one and for determining the optimal correction of the control function the well known variational methods are applied. The assumption that n is small and other assumptions have simplified substantially the solution of the problem. Certain properties of obtained solutions are analyzed and the problem of selecting the initial control program is considered. It is advised to take as an initial trajectory an optimal solution of (1) determined under certain simplifying assumptions. As an illustration, the method

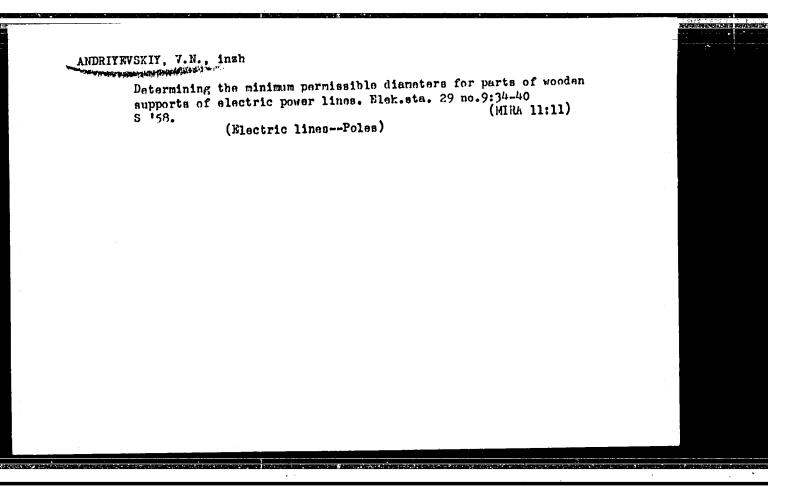
Card 2/3 ·

Card 3/3 0

ANDRITYSUSKIT, V.N., inshener.

Changing 35 kv transmission lines over to 110 kv. Elek.str. 28 (MIRA 10:11)

(Blectric power distribution)

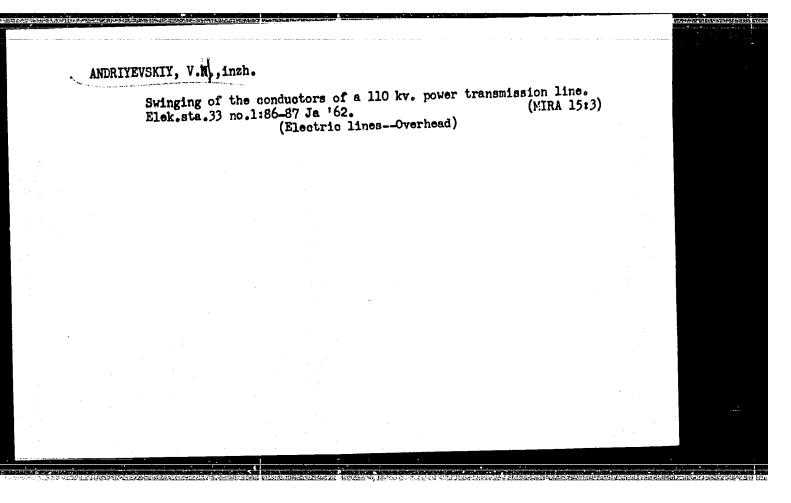


ANDRIYEVSKIY, V.N., inzh.

Damage of the wires of 35 to 220 kv. electric power transmission lines caused by insulation sparkovers. Elek. sta. 31 no.9:54-59 (MIRA 14:10)

ANDRIYEVSKIY, V.N., inzh.

Deformation of metal towers on 220 kv. electric power
transmission lines. Elek. sta. 31 no.9:77-78 S '60. (MIRA 14:10)
(Electric lines—Poles)



ANDRIYEVSKIY, Valeriy Nikolayevich; VASIL'YEV, A.A., red.; SHIROKOVA, M.M., tekhn.red.

[Use of wooden supports for overhead electric power transmission lines] Ekspluatatsiia dereviannykh opor linii elektroperedachi.

Moskva, Gosenergoizdat, 1962. 55 p. (Biblioteka elektromontera, no.71)

(MIRA 16:2)

(Electric lines-Poles and towers)

ANDRIYEVSKIY, Valeriy Nikolayevich; NIKOLAYEVA, M.I., red.; LARIONOV, G.Ye., tekhn. red.

[Use of metal and reinforced concrete towers for power transmission lines] Ekspluatatsiia metallicheskikh i shelezobetonnykh opor linii elektroperedachi. Moskva, Gosenergoizdat, 1963. 87 p. (Biblioteka elektromontera, no.92) (MIRA 16:8)

(Electric lines-Poles and towers)

Andriyevskiy, V.N.

AID Nr. 980-14 31 May

POLYMER WITH TETRAACETYLENE GROUPS IN THE BACKBONE (USSR)

Shvartsberg, M. S., I. L. Kotlyarevskiy, and V. N. Andriyevskiy. IN: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 3, Mar 1963, 575-576. S/062/63/000/003/018/018

A highly unsaturated polymer (I) whose conjugated chain consists of alternating aromatic and tetraacetylene groups was prepared for the first time at the Institute of Chemical Kinetics and Combustion, Siberian Department of

Card 1/3

AID Nr. 980-14 31 May

POLYMER WITH TETRAACETYLENE GROUPS [Cont'd]

8/062/63/000/003/018/018

the Academy of Sciences USSR. The polymer of 4-butadiynylphenyl ether (II) had the following probable structure:

Monomer II, which was synthesized in a 20% yield from 4-acetoacetylphenyl ether, is stable only in dilute solutions, discolors in air, and decomposes at Card 2/

AID Nr. 980-14 31 May

POLYMER WITH TETRAACETYLENE GROUPS [Cont'd]

8/062/63/000/003/018/018

about 85°C. The IR spectrum of II contains a 2227 cm⁻¹ C=C, a 3338 cm⁻¹ C=CH, and a 1247 cm⁻¹ ether band. Polymer I was prepared by polycondensation of II in a pyridine-benzene solution in the presence of CuCl in an O₂ atmosphere. Polymer I is a dark-violet powder insoluble in organic solvents, and explodes on heating. The IR spectrum of I contains a 2208 cm⁻¹ C=C and a 1238 cm⁻¹ ether band and an 830 cm⁻¹ band due to the 1,4-substituents of the benzene ring. Polymer I has an EPR spectrum with an intense signal; the line width is 4.3 oe, and the number of unpaired spins is 8.25 x 10¹⁷/g.

Card 3/3

ANDRIYEVSKIY, Valeriy Nikolayevich; GOLOVANOV, Aleksandr Trofimovich; ZELICHENKO, Abram Simkhovich; KARSAULIDZE, A.N., red.; LARIONOV, G.Ye., tekhn. red.

[Operation of overhead power transmission lines] Ekspluatatsiia vozdushnykh linii elektroperedachi. Moskva, Gosenergoizdat, 1963. 527 p. (MIRA 17:2)

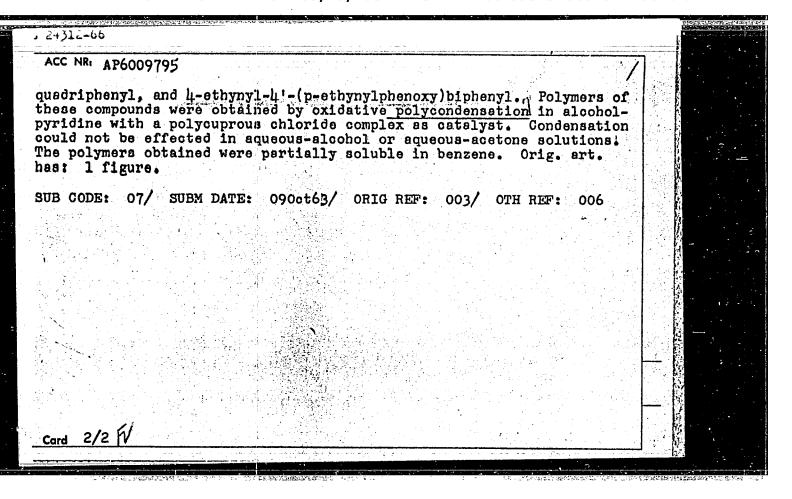
Mark The Talking Street Street

BOLDYREV, V.V.; SHMIDT, I.V.; PIS MENKO, V.I.; SHVARTSBERG, M.S.; KOTLYAREVSKIY, I.L.; ANDRIYEVSKIY, V.N.; KOMAROV, V.F.

Effect of additions of organic compounds with conjugated bonds on the rate of thermal decomposition of solids. Kin. i kat. 6 no.4: 766 Jl-Ag 165. (MIRA 18:9)

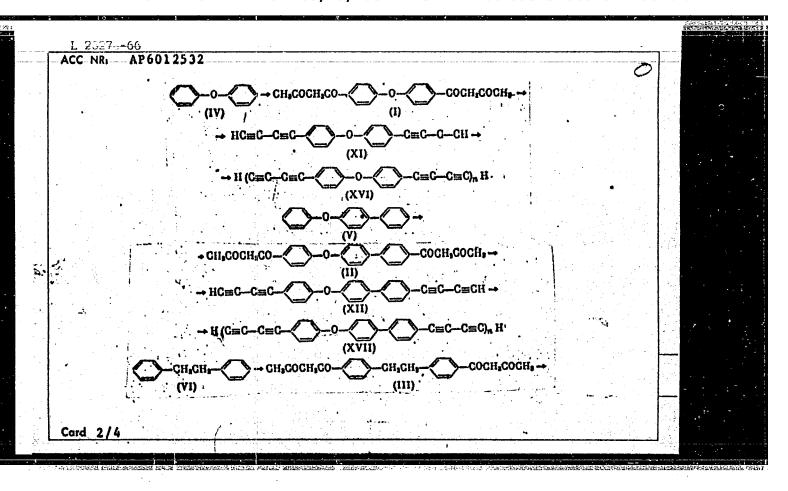
l. Institut khimicheskoy kinetiki i goreniya Sibirskogo otdeleniya AN ${\tt SSSR}_{\:\raisebox{1pt}{\text{\circle*{1.5}}}}$

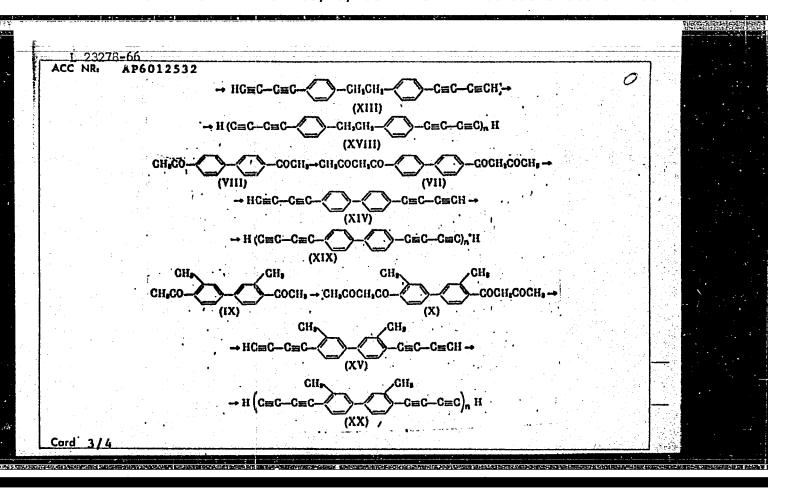
	L_24512-00	25 TO 18 TO
[ACC NR: AP6009795 SOURCE CODE: UR/0062/66/000/002/0302/0308	
	AUTHOR: Kotlysrevskiy, I, L.; Shvartsberg, M. S.; Vasilevskiy, S. F.; Andriyevskiy, V. N.	200
Ŀ	ORG: Institute of Chemical Kinetics and Combustion, Siberian 12 B Department of the Academy of Sciences (Institut khimicheskoy kinetiki i goreniya Sibirakogo otdeleniya Akademii nauk)	
	TITLE: Highly unsaturated polymers Report 13. Polynuclear noncondensed diethynylarenes	
	SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 2, 1966,	
-]:	TOPIC TAGS: polymer, polynuclear hydrocarbon, aromatic hydrocarbon, alkyne, condensation reaction, polymerization, polycondensation, solubility	
	ABSTRACT: Reactions were run to confirm that the introduction of methyl groups or of an oxygen bridge in the p-polyphenylene/segment of a diethynylarene molecule increases its solubility, thus permitting the synthesis of diacetylenes containing a greater number of rings. The following compounds were synthesized: 1, 2, -diethynyl-1, 23-dimethylbiphenyl, 1, 4, -diethynyl-1, 23, 3, 43-tetramethyl-p-	
L	Cord 1/2 UDC: 547.362+541.6	2
		\$50.000 B

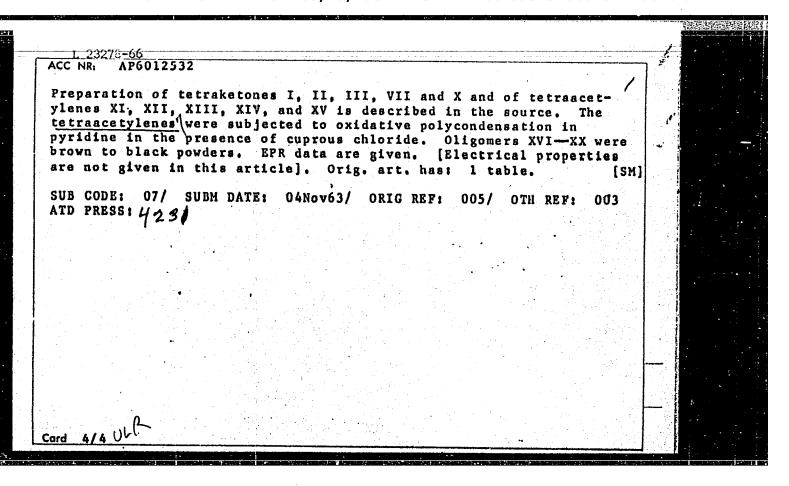


L 23276-66 EVT(m)/EVP(1) IJP(c) RM

ACC NR: AP6Q12532 SOURCE CODE: UR/0062/66/000/003/0527/0533 AUTHOR: Shvartsberg, H. S.; Kotlyarevskiy, I. L.; Andriyevskiy, V. N., Vasilevskiy, S. F. Institute of Chemical Kinetics and Combustion, Siberian Department of the Academy of Sciences SSSR (Institut khimicheskoy kinetiki i goreniya Sibirakogo otdeleniya Akademii nauk SSSR) TITLE: Highly unsaturated polymers. Communication 14. Poly[bis-(butadiynyl)arenes] SOURCE: Izvestiya. Seriya khimicheskaya, no. 3, 1966, AN SSSR. 527-533 TOPIC TAGS: organic semiconductor, semiconducting polymer, polyacetylene, polyphenylene ABSTRACT: New poly[bis(butadiynyl)arene] oligomers have been synthesized as part of a systematic investigation of the effect of structure on the electrical properties of conjugated polymers. The oligomers were prepared as follows: 1.46 Card 1/4 542.952+547.362 UDC:



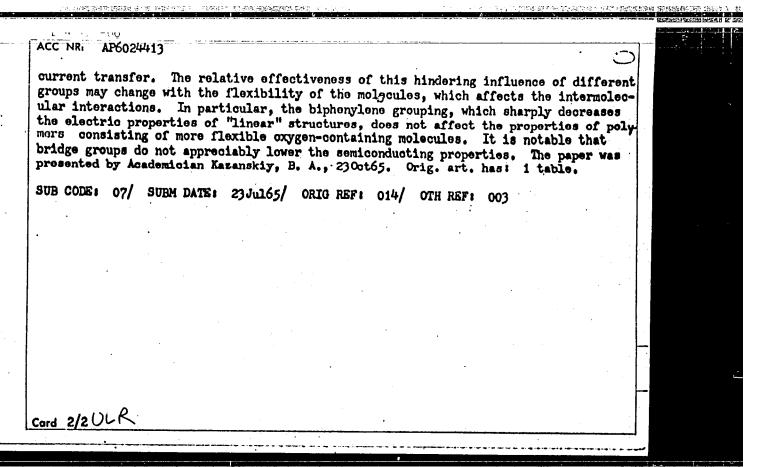


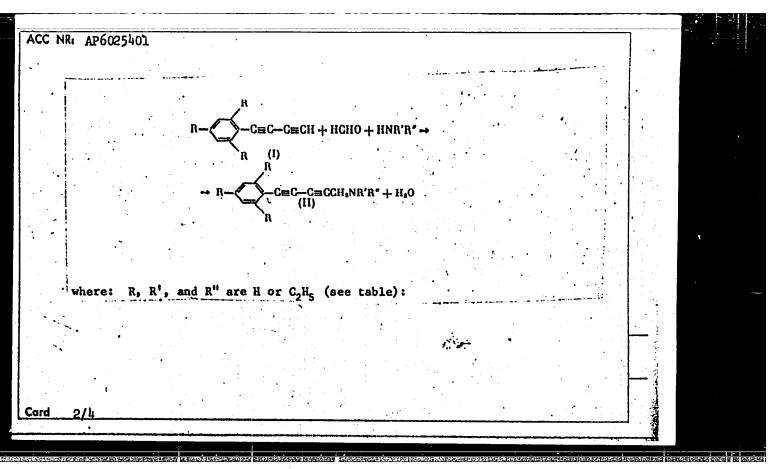


SOURCE CODE: UR/0020/66/169/001/0111/C113 ACC NRI APE024413 AUTHOR: Dulov, A. A.; Slinkin, A. A.; Rubinshteyn, A. M.; Kotlyarevskiy, I. L.; Shvartsberg, M. S.; Andriyevskiy, V. N.; Zanina, A. S.; Shergina, S. I. ORG: Institute of Organic Chemistry im, N. D. Zelinskiy, Academy of Sciences, SSSR (Institut organicheskoy khimii Akademii nauk SSSR); Institute of Chemical Kinetics and Combustion, Siberian Branch, Academy of Sciences, SSSR (Institut khimicheskoy kinetiki i goreniya Sibirskogo otdeleniya Akademii nauk SSSR) TITIE: Influence of disturbance of conjugation on the properties of semiconducting polymers b SOURCE: AN SSSR. Doklady, v. 169, no. 1, 1966, 111-113 TOPIC TAGS: semiconducting polymer, conjugated polymer, semiconductor conductivity ABSTRACT: It has been frequently reported in the literature that the disturbance of conjugation in organic semiconductors as a result of either noncoplanarity of aromatic rings or introduction of aliphatic, oxygen, or sulfur bridges into the conjugated chain lowers the electric characteristics. In the present paper, the intensity of the influence of these different types of conjugation disturbances was compared in a series of polymers of a single class, the polyarylenepolyacetylenes, whose electrical conductivity of and ESR spectra were measured. The introduction of various groups disturbing the conjugation into the conjugated chain was found to hinder the processes of Card

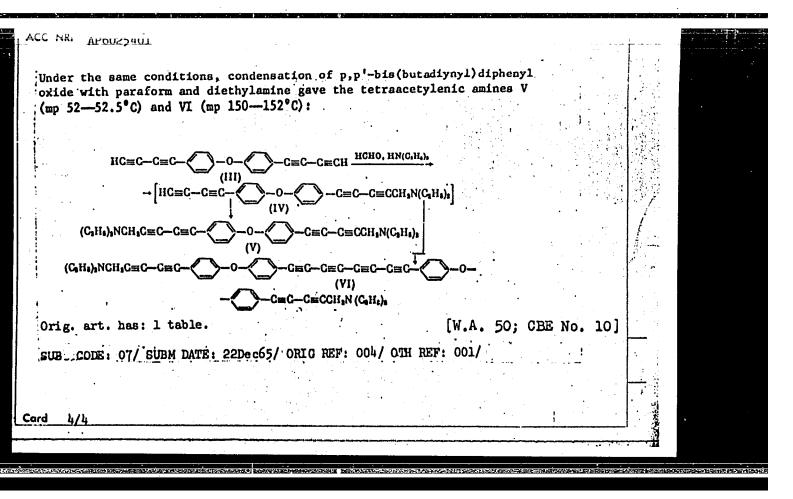
APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101420016-6"

RECOURSE CONTROL ROUTE CONTROL DE CONTROL DE





<u>.</u> A	í.	<u>izgi</u>	APOÜ	2540.	<u> </u>					en e	ज्यानार्थाः -	THE LANGUAGE WAS CHARACT	er oregona	त्रकारणायां के प्रयास्त्रकार	MARCH SAID	THE PARTY OF THE P	Y PANAGRAY	KT#F		
	<i>:</i>																		1 2	
	:	;		Ta	bļe 1		1-n,n	-die	ılkyl <i>t</i>	mino-5	-ary	1-2,4-	pent	adiyne	8					
	\$																			i
	1	-																		
	!	R	R'	R"	Yield	Rund V, X	Formul.	Calcu- latai N. X	ν(C=O, cm ⁻¹	mp. °C	Picr Frunt N. X	Formula	Eibi		ydroc Bugi	hloride tormulă	Cl, I			
	•	н	C.11	CeHe-	74,5	6,86	Cullin	6,63	2242	126,5-127,5	12,82	Callin NeOr	12,72		14,52	Cahacin	14,31	•		
		н		H •)•→	73,0		Ċ _m III,1N	,	2243	118-119	12,21	CasHanN4Os	12,39	(decomp.)		CHIHCIN CHIHCINO	13,65			
		EH•−		осн _е сн,—	55,5*	1	C ¹¹ II II NO		2245 2230	187,5—189	11,42	Call a NaO	11,66	178,5-180 220-222 (decomb.)	12,07	CultuCIN	12,24	••		
		CE,-	- {Cl	Ha)4—	82,4	5,40	Cu HanN	5,28	2236	184,5186	11,44	Callanio,			1 1	Cullacin	11,76		ر شوی	
		Си	-cn,cn,	осн,сн,	51,7**	5,30	Синиио	5,24	2236		-	-	-	216-218 (decomp.)	11,68	C _M H _M CINO	11,67.			
	•				(petro		ether)				:						•	•		
								••	و المحمد و الله		.*	•	. •	*.		•	. •			
Co	ırd		3/4	•					4					·						
			•••				. :					. ,	:		<i>‡</i>		1.0			
<u> </u>	ين																		- i	



Ļ		Δ-	
· · · · · · · · · · · · · · · · · · ·	•	~ 1 _	
• •			
•	L 64299-65 EMT(m)/EPF(0)/EMA(d)/EMP(j)/T WM/RM ACCESSION NR: AP5020990 UR/0195/65/008/004/0768/0768 24/5		
	AUTHOR: Boldyrev, V. V.; Shmidt, I. V.; Pis'menko, V. I.; Shvartsberg, M. S.; Kotlyarevskiy, I. L.; Andriyevskiy, V. N.; Komarov, V. F.		
	TITLE: Effect of additions of organic compounds with conjugate bonds on the rate of thermal decomposition of solid substances	••••••••••••••••••••••••••••••••••••••	
	SOURCE: Kinetika i kataliz, v. 6, no. 4, 1965, 766		
•	TOPIC TAGS thermal decomposition, solid kinetics, conjugate bond system, silver compound, topochemistry	•	
•	ABSTRACT: It has been observed that certain organic compounds with a system of conjugate multiple bonds exert an effect on the rate of thermal decomposition. Tests were made of the effect of heterophas additions (5% on the weight of oxalate) of conjugate alpha, omega-diarylpolyenes (I)-(IV) on the rate of thermal decom-		
	position of silver oxalate at 133C. A figure is given which shows a plot of the degree of conversion against time. Results show that additions of the above sub-		
•	Cord 1/2		
	grand to the second of the sec		
	·		
	·		
· .			

	. L 64299-65			₁						
	stances bring about just as a inorganic additives ordinari compounds on the rate of to special characteristics of the and the oxalate. Orig. art.									
i i	SUBMITTED: 20Mar65	ENCL: 00	SUB CODE: 00, TD		्र जिल्हा इ.स.					
	NR REF SOV: 004	OTHER: 004				•				
		1			•					

ANDRIYEVSKIY, V.P. [Andriievs'kyi, V.P.] (Ternopol')

Bohind the closed doors of the Pochayev Monastery. Hauka i shyttia 9 no.11149-51 N '59. (MIRA 13:3)

(Pochayev Monastery)

89172

S/103/61/022/002/003/015 B104/B201

16.9500 (1031,1121,1132)

AUTHOR:

Andriyevskiy, V. R. (Leningrad)

TITLE:

Estimation of natural oscillation parameters in nonlinear

automatic control systems

PERIODICAL:

Avtomatika i telemekhanika, v. 22, no. 2, 1961, 171-175

TEXT: A study has been made of an automatic control system which is described by the equations

$$x_{s} = \sum_{k=1}^{n} a_{sk}x_{k} + f_{s}\sum_{k=1}^{n} (b_{sk}x_{k}) \quad (s = 1, 2, ..., n) \quad (1).$$

The parameters of the periodic operational conditions that are possible in this system are mostly found by approximate solutions. A large class of systems described by (1) permits applying the harmonic linearization. This kind of linearization, as is well known, consists in that all terms of a Fourier expansion with the exception of the first can be neglected in the components of a periodic solution. One thus obtains by approximation: $x_S = a_S \sin(\omega t + \gamma_S) \qquad (s = 1, 2, \ldots, n) \qquad (2)$



Card 1/4

89172

S/103/61/022/002/003/015 B104/B201

Estimation of natural oscillation...

When it is assumed that the upper harmonics also are neglected in the Fourier expansion of $f_8(\sum_{k=1}^{\infty}b_{gk}x_k)$, and that, moreover, f_g is unique and



symmetrical, the following relation may be written: $f_s(\sum_{k+1}^n b_{sk} x_k) = q_s \sum_{k=1}^n b_{sk} x_k \qquad (3).$ (1) can then be represented as $\dot{x}_s = \sum_{k=1}^n c_{sk} x_k \qquad (4)$, where $c_{sk} = a_{sk} + q_s b_{sk}$.

The following relation holds for the characteristic determinant of the harmonically linearized system: $\left| \| c_{sk} \| - j \omega E \right| = 0$ (5). If one succeeds in finding a system of equations (2) for which the condition (5) is satisfied, and where ω is in that region in which the harmonic linearization can be applied for (1), the problem will then be solved. This is practically impossible, however, in complicated systems with some nonlinear elements. An appreciable simplification is obtained when doing without the determination of parameters \boldsymbol{a}_{s} and $\boldsymbol{\omega},$ and when restricting oneself to

: Card 2/4

BYILL

S/103/61/022/002/003/015 B104/B201

Estimation of natural oscillation...

an estimation thereof. If q_8 is taken at random, condition (5) may then be regarded as an equation for the boundary of the D decomposition of system (4). If the set of such points as lie on the boundary of the D decomposition in the space $\{q_1,\ldots,q_n\}$ is denoted by U, then every point (q_1, \ldots, q_n) &U (6) will, on the strength of relation (5), correspond to a certain frequency ω . This condition is satisfied if (1) has periodic solutions that can be approximated by (2) and if (q_1, \ldots, q_n) can be assigned to the coefficients of harmonic linearization. The fact that in most cases occurring in the practice the possible values of the coefficients of linearization do not fill out the entire space $\{q_1,\ldots,q_s\}$ can be used to estimate a_s and ω . The condition $(q_1, \ldots, q_s) \in U \cap Q$ is given, where Q is the set of the values of the coefficients of linearization which are possible in the practice. Every point of this intersection corresponds to a determined frequency and it is sufficient for this set to contain at least one point to make a solution possible. The stability of the periodic solutions of the system (1) is examined and it is shown that this requires

Card 3/4

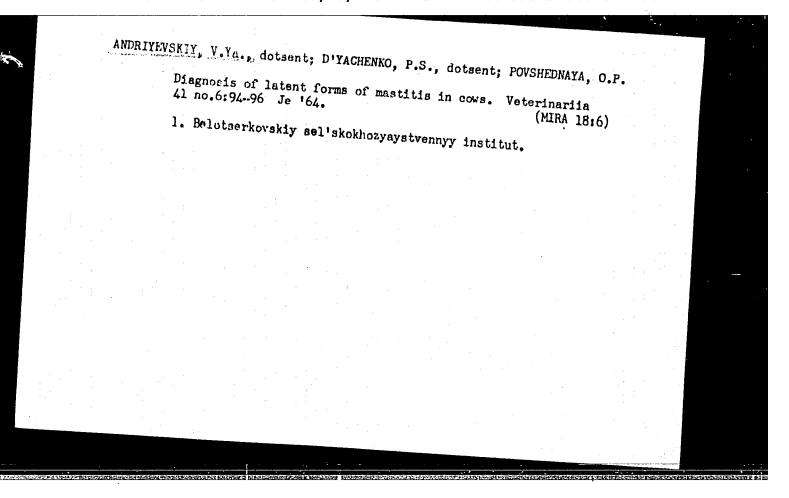
Estimation of natural oscillation ...

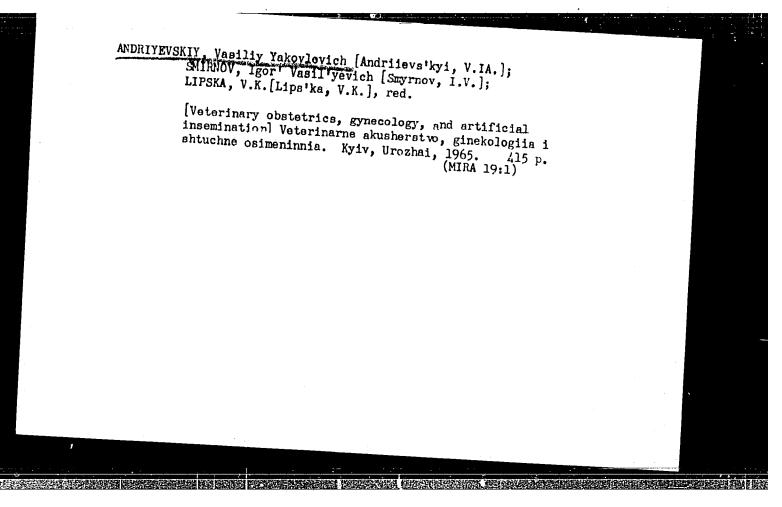
S/103/61/022/002/003/015 B104/B201

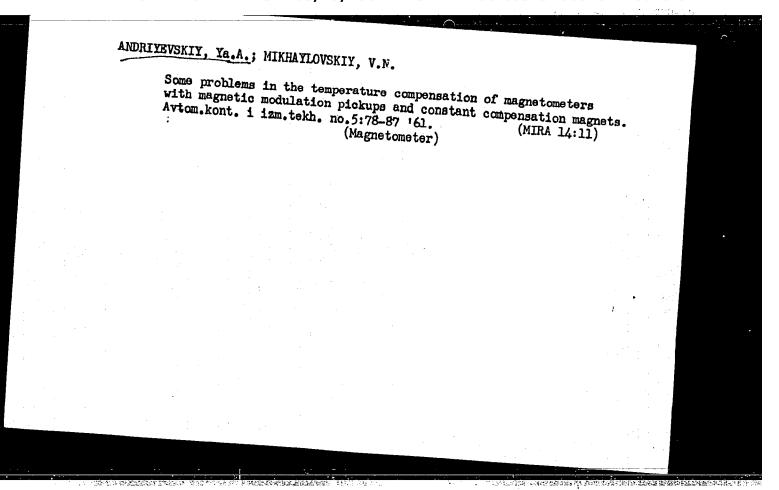
setting up the atricter condition $(q_1,\ldots,q_n)\in U_0\cap Q$ (9). Here, U_0 is the boundary of the range of stability of (4) in the space $\left\{q_1,\ldots,q_n\right\}$. On an increase of amplitudes a_s the point (q_1,\ldots,q_n) is found further to shift into the stable region. This fact can be put to use to separate the unstable solutions from the stable ones. The natural oscillation parameters can be easily determined with the aid of (9), and the effect a change in the parameters of the system concerned has upon the natural oscillation parameters is studied. An example is finally discussed. There are 3 figures and 3 Soviet-bloc references.

SUBMITTED: August 29, 1960

Card 4/4







AMDRIYEVSKIY, Ya.I., mostovoy master (stantsiya Tikhoretskaya SeveroKavkasskoy dorogi).

Shortcomings of new track bases. Fut' i put.khos. no.1:32

Ja '59.

(Railroads--Track)

(MIRA 12:2)